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VOLUME 5 DATA MANAGEMENT STUDY

APPENDIX D CONTRACTOR DATA PACKAGE CONFIGURATION MANAGEMENT (CM)

PREPARED BY

A.W. Morris

PROJECT CONFIGURATION MANAGEMENT VOYAGER SPACECRAFT SYSTEM PROJECT

APPROVED BY

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DATA MANAGEMENT AND CONTROL TASK
VOYAGER SPACECRAFT SYSTEM PROJECT

PREPARED FOR

JET PROPULSION LABORATORY
CALIFORNIA INSTITUTE OF TECHNOLOGY
4800 OAK GROVE DRIVE
PASADENA, CALIFORNIA

UNDER JPL CONTRACT No. 951112



MISSILE AND SPACE DIVISION Valley Forge Space Technology Center P.O. Box 8555 • Philadelphia, Penna. 19101

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6	DATA ITEM PHASING/FREQUENCY	

INTRODUCTION

This appendix presents the Contractor Data Package (Date Item Matrix, Data Requirement Descriptions, User Flow Diagram, Document Relationship Tree, and Frequency and Phasing Charts) for Configuration Management (CM).

These data provide for the establishment and maintenance of a uniform system of configuration identification, accounting, and control.

The complete list of Contractor Data Package appendixes is as follows:

Appendix A - Technical Description and System Engineering (SE)

Appendix B - Planetary Quarantine (PQ)

Appendix C - Manufacturing (MG)

Appendix D - Configuration Management (CM)

Appendix E - Quality Assurance (QA)

Appendix F - Test (TE) and Mission Operations (MP)

Appendix G - Reliability Assurance (RA)

Appendix H - Logistics and Support (LS)

Appendix I - Overall Management (MA); Scheduling (SC); and Manning and Financial (MF)

Appendix J - Procurement and Contracting (PC)

Appendix K - Data Management (DM)

*Appendix L - Facilities (FA)

*Appendix M - Safety (SA)

*Appendix N - Site Activation for Launch (AL)

*Appendix O - Science (SI)

*Appendix P - Related Project Interfaces (RP)

*Appendix Q - Advanced Missions (AM)

^{*}Appendixes L through Q prepared under Contract NAS7-584

DATA ITEM NUMBER	1 of 5 DATA ITEM CONFIGURATION MANAGEMENT	DESCRIPTION
	DIRECTIVES	
CM- 001	Engineering Change Proposal (ECP)	Used to request JPL formal approval of Class accompany each SCN. May combine several
CM- 002	Specification Change Notice (SCN)	Used to obtain JPL approval to change specifi is filed in the specification.
CM- 003	Change Notice	Used to obtain in-house approval of changes t and drawings
······································	LISTS	
CM- 004	Approved Change Proposal (ECP), Contract End Item (CEI)	Used to show those ECP's approved for each item. Is presented by CEI number.
CM- 005	Index, Contract End Item Approved Configuration	Used to show those ECP's per each contract of Presented by CEI number.
CM- 006	Index, Specification Identification	Index of all specifications contained in a syst in the system specification.
CM- 007	Index, System/Equipment Contract End Item Requirements	Cross-reference index between contract end number to quantities required at various loca
CM- 008	List, Approved Changes per Equipment Echelon	Lists all approved changes at and below a recassembly level.
CM- 009	List, "As Designed" Parts Usage	Reflects the usage of all parts, as defined by next higher assembly number.
CM- 010	List, Hardware Incorporated Changes	Lists changes which have been incorporated assembly level.
CM- 011	List, Indented Breakdown of Parts	Reflects the contents of the item as defined by indented by assembly level.

^{*} KEY INFORMAL DATA

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DATA ITEM NUMBER	2 of 5 DATA ITEM CONFIGURATION MANAGEMENT	DESCRIPTIO
	LISTS (Cont'd)	
CM- 012	List, "As Built" Indented Configuration	Reflects the actual contents of the item "as b
CM- 013	List, "As Built" Parts Usage	Reflects the actual usage of all parts by next serial number.
CM- 014	Index, Drawing	List of drawings indexed by name, number,
CM- 015	Index, Specification	List of specifications indexed by name, number
CM- 016	List, Deviations and Waivers	Provides a listing of all deviations or waiver equipment ready to be shipped which resulted Board activities.
CM- 017	List, Special Test Equipment, Tools, Fixtures, etc.	Provides a listing of and the status of all spe fixtures developed for the production and test
CM- 018	List, Specification Status/Release	List of specifications containing their release revision status.
CM- 019	List, Break of Inspection, Per Contract End Item	Documents any actions resulting from removinitial installation has been accepted by inspecontract end item.
	LOGS	
CM- 020	Log, Contract End Item Assignment Number	Reflects the number assigned from a project block in order to avoid duplication of assignments
CM- 021	Log, Engineering Change Proposal (ECP) Number Sequence Assignment	Used to avoid sequence number duplication, sequence number one (1).
CM- 022	Log, Specification Change	Serves as an index for approved specification

^{*} KEY INFORMAL DATA

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DATA ITEM NUMBER	3 of 5	DESCRIPTION
NUMBER	CONFIGURATION MANAGEMENT	
	LOGS (Cont'd)	
CM- 023	Log, Specification Distribution	Required because copies of specification change leading to each specification holder.
CM- 024	Log, Specification Identification Number Assignment	A card file, containing specification status, document control center.
	MANUALS	
CM- 025	Manual, Configuration Management Procedures	A compilation of all configuration management policies, procedures and instructions.
	PLANS	
CM- 026	Plan, Configuration Management	
	PROCEDURES	
CM- 027	Procedure, Change Control	Prescribes requirements, practices, proce responsibilities to be used in the control of
CM- 028	Procedure, Configuration Control (Administrative)	
CM- 029	Procedure, Configuration Management Data Processing	Prescribes requirements, procedures, met responsibilities related to the release of the used to identify the configuration.
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DATA ITEM	DATA ITEM	DESCRIPTION
NUMBER	CONFIGURATION MANAGEMENT	
	PROCEDURES (Cont'd)	
CM- 030	Procedure, Configuration Management Reviews	
CM- 031	Procedure, Engineering Configuration Identification Document Release System	Prescribes requirements procedures, metho the release of those documents used to identi
CM- 032	Instruction, Change Document Preparation	
CM- 033	Instruction, Change Submittal and Approval	
	RECORDS	
CM- 034	Chart, Configuration	Identifies the specification change notices the specification revision.
CM- 035	Record, Drawing Approval	
CM- 036	Record, Drawing Release and Status	
CM- 037	Record, Installation	A list presented by part number to show the serialized items are installed.
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^{*} KEY INFORMAL DATA

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DATA ITEM Number	5 of 5 DATA ITEM CONFIGURATION MANAGEMENT	DESCRIPTION
	REPORTS	
CM- 038	Report, Change Approved/ Change Held	A daily report of Configuration Control Boar on a daily and weekly basis.
CM- 039	Report, Configuration Management Activity	A monthly report to the customer on configuactivities.
CM- 040	Report, Configuration Management Audit	Audit of conformance to procedures.
CM- 041	Report, Contract Document Status	Provides visibility and status of the contract needed to implement engineering change pr
CM- 042	Report, Hardware Status	Used to report completed hardware status of disposition.
CM- 043	Report, Spares Status (Contract End Item)	Used to monitor the incorporation of approx contract end item spares.
CM- 044	Report, Updating/Modification Status	Reports the actual incorporation of approve ware.
	REQUESTS	
CM- 045	Request, Design Change	A request by any project organization to en a design change.

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Configuration Management (CM) data items have been included in the Engineering User Flow Diagrams. See Appendix A, Section 3.

Configuration Management Data Requirement Descriptions

DRD Number	Title
CM-001	Engineering Change Proposal (ECP)
CM-002	Specification Change Notice (SCN)
CM-003	Change Notice
CM-004	Approved Change Proposal (ECP), Contract End Item (CEI)
CM-005	Index, Contract End Item Approved Configuration
CM-006	Index, Specification Identification
CM-007	Index, System/Equipment Contract End Item Requirements
CM-008	List, Approved Changes per Equipment Echelon
CM-009	List, 'As Designed" Parts Usage
CM-010	List, Hardware Incorporated Changes
CM-011	List, Identified Breakdown of Parts
CM-012	List, 'As Built' Indented Configuration
CM-013	List, 'As Built" Parts Usage
CM-014	Index, Drawing
CM-015	Index, Specification
CM-016	List, Deviations and Waivers
CM-017	List, Special Test Equipment, Tools, Fixtures, etc.
CM-018	List, Specification Status/Release
CM-019	List, Break of Inspection, per Contract End Item
CM-020	Log, Contract End Item Assignment Number
CM-021	Log, Engineering Change Proposal (ECP) Number Sequence Assignment
CM-022	Log, Specification Change
CM-023	Log, Specification Distribution
CM-024	Log, Specification Identification Number Assignment

CM-025	Manual, Configuration Management Procedures
CM-026	Plan, Configuration Management
CM-027	Procedure, Change Control
CM-028	Procedure, Configuration Control (Administrative)
CM-029	Procedure, Configuration Management Data Processing
CM-030	Procedure, Configuration Management Reviews
CM-031	Procedure, Engineering Configuration Identification Document Release System
CM-032	Instruction, Change Document Preparation
CM-033	Instruction, Change Submittal and Approval
CM-034	Chart, Configuration
CM-035	Record, Drawing Approval
CM-036	Record, Drawing Release and Status
CM-037	Record, Installation
CM-038	Report, Change Approved/Change Held
CM-039	Report, Configuration Management Activity
CM-040	Report, Configuration Management Audit
CM-041	Report, Contract Document Status
CM-042	Report, Hardware Status
CM-043	Report, Spares Status (Contract End Item)
CM-044	Report, Updating/Modification Status
CM-045	Request, Design Change

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GE EXHIBIT DRD CM-002.

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.: CM-002

- 1. Sequence numbers assigned by contractor responsible for specification.
- 2. Format to be same as or equal to sample format "A" CM 001 BB 001-1B Exhibit X.
- 3. Terms shall be directive, ie: add, delete, change from _____to___.
- 4. Prepared on reproducible material, i.e., multilith, ditto, etc.
- 5. An SCN page shall be prepared for each page of the specification for which change is requested/required.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

1. Approved SCN to be distributed to each holder of specification.

OUTLINE OF CONTENTS:

- SCN number composed as follows:
 Sequence number specification sheet number being changed alpha suffix (Denoting 2 SCN Sheets for one specification sheet)
- 2. Issue and superseding date (in the event of rewrite)
- 3. Related ECP number
- 4. Type, Model, Series, number for which specification is written.
- 5. Specification number for which written.
- 6. Contract number.
- 7. Contractural approval (CCN, etc.)
- 8. Specification page number opposite which to file SCN page.
- 9. Change effectivity (serial number, date, etc.)
- 10. Change description.
- 11. Contractor name and FSCM.
- 12. Other specifications affected.

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

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VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.: CM-003

- 1. Contractor, subcontractor, supplier, vendor formats are acceptable if containing at least the specified contents.
- 2. Local numbering systems are acceptable.
- 3. Prepared on reproducible material, i.e., multilith, ditto, etc.
- 4. A continuation sheet may be used if required.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

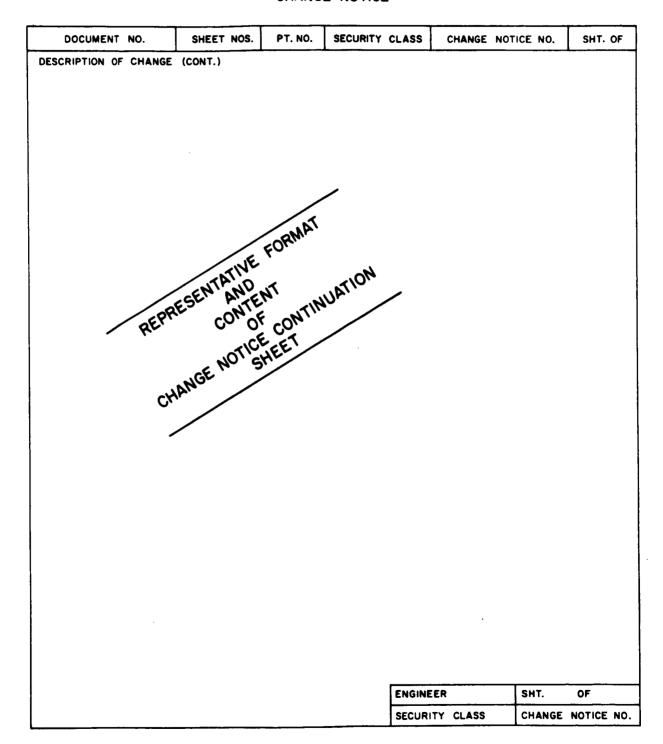
OUTLINE OF CONTENTS:

- 1. Company name and FSCM
- 2. Initiator name
- 3. Change notice number
- 4. Next higher assembly number
- 5. End item number
- 6. Related ECP number and SCN number
- 7. Drawing or specification title and number for which change notice is written
- 8. Nature of the change being described
- 9. Reason for the change
- 10. Complete description of the change
- 11. Disposition of material affected by change (i.e., rework, scrap, retrofit, return to stock, requalify, retest, etc.) versus various material status (i.e., in process, in stock, completed, installed, in test, in quality, in field, etc.)
- 12. Effectivity of change (i.e., serial number, model number)
- 13. Class of change (i.e., I or II) and type
- 14. What change effects (i.e., specifications, performance, safety, interchangeability, cost, delivery, EMI, retrofit, etc.)
- 15. Approval signatures and date.

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2. 3.	Index issue date Issuing contractor's name	
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PAGE I OF 2

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.: CM-005

- 1. Prepare an index for each contract end item.
- 2. File indexes in contract end item number sequence.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

- 1. Name contract end item
- 2. Specification number of contract end item
- 3. Contract end item number
- 4. Part number
- 5. Type/model/series number to which contract end item is applicable
- 6. Using organization code and quantities required for each organization
- 7. Each line item to contain:
 - a. ECP number
 - b. ECP title
 - c. ECP type
 - d. Serial number (contract end item) effectivity
 - e. Estimated hours to accomplish modification
 - f. Estimated hours "down time" for modification
 - g. Can modification be made with "power on"?
 - h. Are spares affected?
 - i. Are technical publications affected?
- 8. Index issue date
- 9. Name and FSCM of contractor issuing index

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

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DECUIDEMENT:	M	THE MEST CHOICE TO ME		A. W.	Morris	7/28/67	NO.:	CM-006
TITLE OF DOCUMENT:					organization re for document p Configuration Manageme	REPARATION:	TASK OR SUBTASK:	DRL ITEM NO.:
INDEX, SPECI	FICA	TION IDENTIFICA	ATION		ORGANIZATION RI FOR DOCUMENT RI	ESPONSIBLE	DRL NO.:	LEVEL NO.:
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USE OF DOCUMENT:					ORGANIZATION R FOR DOCUMENT		NO. OF	COPIES:
Provides an index of and the status of all specifications					POR DOCUMENT	STOWAGE.	As required	
used in the system (i.e., spacecraft, science, capsule,			ESTIMATED M	ANHOURS	INFORMATION CUTOFF			
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CM-002, Specification	n Cha	ange Notice (SCN)	;		FREQUENCY (OF ISSUE	PUBLICAT	ION DATE:
SE-010, Contract End Item (CEI) Detail; Specification (Prime Equipment) Part I (Requirements);				ANNUALLY D SEMI-ANNUAL		PDR		
SE-011, Contract End Item (CEI) Detail; Specification				QUARTERLY BI-MONTHLY			REQUENCY	
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VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.: CM-006

Prepare as a bookform drawing with a separate sheet for each specification. To be prepared by each contractor having a system responsibility and the customer for the Voyager System Specification. Is updated from inputs provided by specification change logs and specification release list.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

To be distributed to each holder of a System Specification, to be filed following title page.

OUTLINE OF CONTENTS:

Sample Format given in CM 001 BB 001-1B Exhibit VII

Contents for each sheet (specification) shall include:

- 1. Specification title
- 2. Specification number
- 3. Applicable contract end item number
- 4. Applicable contract end item part number
- 5. Scheduled completion date
- 6. Slippage date
- 7. Approval date (Customer/System Contractor)
- 8. Approved SCN sequence number(s) and ECP number(s)
- 9. SCN title
- 10. Specification number and name of each associate contractor affected by the SCN
- 11. Related contractor SCN numbers
- 12. Changed part number if applicable
- 13. Name of contractor responsible for specification

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

-2-

SP	ECIFICATION TITLE	N SPE	CIFICATION NO.	CEI NO.	PART NO.
SCN NO.	ECP NO.	ECP TITLE	ASSOCIATE CONTRACTOR SPEC. NOS. AFFECTED	RELATED SCN NOS.	CHANGE PART NO. (IF APPLICABLE

REPRESENTATIVE FORMAT AND CONTENT

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VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET	*
SPECIAL INSTRUCTIONS:	DRD NO.: CM- 007
Prepared in contract end item number sequence.	
SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DOL WRITE IN DISTRIBUTION BELOW)	
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OUTLINE OF CONTENTS:	
Each line item to contain:	
 Contract end item number Contract end item part number Type/model/series code symbol 	
 Column and quantity for each organizational location Index issue date Name of contractor issuing index 	

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CM-001, Engineeri	ng Ch	ange Proposal (E			FOR SINGLE PR	EPARATION:	TO L	JSER:
CM-002, Specificat		nange Notice (SCI	N);		FREQUENCY	OF ISSUE:	PUBLICAT	ION DATE:
CM-003, Change N					D ANNUALLY D SEMI-ANNUA	🗸	PE	ıR
CM-036, Record, 1	Orawin	ng Release and St	atus		☐ QUARTERLY	LL 1		REQUENCY
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	VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET	
SPECIA	L INSTRUCTIONS:	DRD NO.: CM- 008
1.	Presented in alpha-numeric sequence by document number for change notices prepared.	
SPECIAL	DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)	
OUTLIN	IE OF CONTENTS:	
1.	 Each line item to contain: a. Change document number b. Number of document for which change was written c. Title of document for which change was written d. Title and number of top document for which list is prepared 	
2. 3.	Date of list Contractor name and FSCM number preparing list	

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VOYAGER	DATA RE	QUIREMENT DESCRIPTION						
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	CM	THE RESPONSIBLE TON	5.00	1	Morris	7/28/67	NO.:	CM-009
TITLE OF DOCUMENT:					organization Ri for document P Configuration	PREPARATION:	TASK OR SUBTASK:	DRL ITEM NO.;
LIST, "AS DES	SIGNE	D"PARTS USAC	E		ORGANIZATION R FOR DOCUMENT R		DRL NO.:	LEVEL NO.:
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CM-011, List, Inder	ted B	reakdown of Par	ts;		FREQUENCY	OF ISSUE:	PUBLICAT	ION DATE:
CM-013, List, "As CM-036, Record, D			tatus		☐ ANNUALLY ☐ SEMI-ANNUAL ☐ QUARTERLY	LLY	Pl	DR
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JPL 2568 OCT 65

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

ORD NO.: CM-009

- 1. List to be produced at any equipment level, i.e. system, subsystem, contract end item, and component
- 2. To be produced in alphanumeric sequence.
- 3. Information to produce list to be provided the contractor by subcontractors, vendors, and suppliers on a current basis.
- 4. Information derived from release records, parts lists, and the indented breakdown of parts.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

- 1. 'B' and 'C' level managers of Engineering, Quality Assurance, Reliability, and Manufacturing.
- 2. Others may obtain copies upon approved request.

OUTLINE OF CONTENTS:

- 1. List of all parts and reference documents contained in a system, contract end item, or component in alphanumeric sequence
 - a. Each line item to contain:
 - 1. Part identification number or reference document number
 - 2. Nomenclature
 - 3. Quantity per next higher assembly(s)
 - 4. Next higher assembly(s) number
 - 5. Current revision symbol
 - 6. Total quantity used for system
 - 7. Reference designation (As applicable)
 - 8. Outstanding change notice numbers
 - b. Header to contain:
 - 1. Date of issue of list and supersedes date
 - 2. System name or contract end item number as applicable for which list prepared
 - 3. Identification number of assembly for which list prepared
 - 4. Contractor name and FSCM number

(FSCM) (CONTRACTOR'S NAME

PARTS	PARTS USAGE LIST FOR:							••		
									DATE	
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NO.	IDENT. NO	REF DES.	NOMENCI.ATURE	NEXT HIGHER ASSEMBLY IDENT. NUMBER(S)	PER CACH	CURR.	NO. CHE' NAINC' CURR.	QTY. TOTAL	ORIG. ISSUE DATE	REVISED ISSUE DATE
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REQUIREMENT:	CM			A.W.	Morris	7/28/67		CM-010
TITLE OF DOCUMENT:			<u></u>	L	ORGANIZATION RE		TASK OR	DRL ITEM
					FOR DOCUMENT P	REPARATION:	SUBTASK:	NO.:
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JPL 2568 OCT 65

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.: CM-010

1. To be prepared in alphanumeric sequence against contract end item numbers per contract end item serial number.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

- 1. Contract end item number
- 2. Federal supply code for manufacturers
- 3. Part number
- 4. Change number (ECP, SCN, etc.)
- 5. Serial number (contract end item)
- 6. Contract end item location
- 7. New part number (if applicable)
- 8. Type of change (P, I, etc.)
- 9. Kit number (if applicable)
- 10. Kit requested, delivery date (if applicable)
- 11. Actual delivery date
- 12. Completion date
- 13. Report date
- 14. Contractor name and FSCM producing report
- 15. Page number

	PART NO.	SERIAL NO.	CHANGE NOTICE NOTICE	LOCATION	CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE (IF APPLICABLE)	TED CHAN	KIT NO. (IF APPLICABLE)	REQUEST KIT DEL DATE	ACTUAL DATE DATE	COMPLETION
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GE EXHIBIT DRD CM-011 DATE DATA DRD APPROVED BY CATEGORY VOYAGER DATA REQUIREMENT DESCRIPTION DRD NO. DRD PREPARED BY: CONTRACT DATE CODE: OFFICE RESPONSIBLE FOR DRD: CODE ORGANIZATION ORIGINATING NO. REQUIREMENT: 7/28/67 CM-011CMA.W. Morris TASK OR DRL ITEM ORGANIZATION RESPONSIBLE TITLE OF DOCUMENT FOR DOCUMENT PREPARATION: SUBTASK NO.: Configuration Management ORGANIZATION RESPONSIBLE DRL NO. LEVEL NO. LIST, INDENTED BREAKDOWN OF PARTS FOR DOCUMENT REPRODUCTION ORGANIZATION RESPONSIBLE DDL NO. FILE NO. FOR DOCUMENT DISTRIBUTION TYPE OF DOCUMENT DICONTROL DACTION DREFFRENCE TINFORMATION USE OF DOCUMENT: ORGANIZATION RESPONSIBLE NO. OF COPIES: FOR DOCUMENT STOWAGE: Used to define the "As Designed" configuration of any 25 level of assembly. ESTIMATED MANHOURS INFORMATION CUTOFF Used to analyze the impact of a change. FOR SINGLE PREPARATION DATE OR MILESTONE: DATE DATA DUE ESTIMATED COST (\$) INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: "As Designed" Parts Usage; CM-012, List, "As Built" Indented Configuration; CM-013, List, "As Built" Parts FOR SINGLE PREPARATION: TO USER: FREQUENCY OF ISSUE: PUBLICATION DATE: Usage; CM-036, Record, Drawing, Release and Status ANNUALLY **PDR** SEMI-ANNUALLY DUARTERLY UPDATE (FREQUENCY BI-MONTHLY MONTHLY SEMI-MONTHLY Kept current CLASSIFICATION: n ☐ GROUP I BI-WEEKLY through launch D SECRET I SPECIAL HANDLING C GROUP 2 WEEKLY GROUP 3 O CONFIDENTIAL ☐ NASA DISCREET ESTIMATED DAILY SECRET RESTRICTED DATA EXPIRATION DATE: OTHERWISE, AS SPECIFIED CONFIDENTIAL RESTRICTED DATA T PROPRIETARY D PROJECT DISCREET E UNCLASSIFIED I PUBLIC DOMAIN IT NOFORN REFERENCE DOCUMENTS: KIND OF DATA: FORM OF DATA: XPRINTED DOCUMENT □ ABSTRACT □ INSTRUCTION CM001BB001-1B ☐ CHART ☐ BROCHURE D LETTER Exhibit XII X LIST ☐ DIAGRAM D BULLETIN Configuration Management Manual D LOG DRAWING ☐ CATALOG ☐ FILM (STATIC OR MOTION) ☐ CONTRACT D MANUAL ☐ ILLUSTRATION □ DIRECTIVE ☐ MEMORANDUM ☐ MODEL ☐ DISCLOSURE D MINUTES APPLICABLE STANDARDS ☐ PLAN ☐ RECORDING (TAPE OR DISC) ☐ ENGINEERING CHANGE COMPUTER CARD ORDER ☐ PROCEDURE COMPUTER TAPE ☐ REQUEST FOR ENGINEER- ☐ REGULATION ING CHANGE PROPOSAL | REPORT ☐ MICROFILM (W/OR W/O CARD) ☐ SCHEDULE □ OTHER ENGINEERING CHANGE PROPOSAL D SPECIFICATION ☐ HANDBOOK ☐ STANDARD □ INDEX □ VOUCHER REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL) DATE PREPUBLICATION PROOF DATE DRAFT SUBMIT FOR REVIEW TO:

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Manager, Configuration Management

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO .: CM-011

- 1. This list to be produced at any equipment level upon request, i.e., system, subsystem, contract end item, or component and shall be indentured by assembly level.
- 2. Information to produce list shall be provided the contractor by subcontractors, suppliers and vendors on a current basis.
- Information shall be derived from, current with and agree with specification and 3. drawing release records, parts lists (list of materials), etc.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DOL WRITE IN DISTRIBUTION BELOW)

- "B" and "C" level managers of Engineering, Quality Assurance, Reliability and 1. Manufacturing.
- 2. Others may obtain copies upon approved request.

OUTLINE OF CONTENTS:

- Shall list all parts and referenced documents contained in an assembly indentured by assembly level.
 - Each line item (part or referenced document) shall contain;
 - (1) Part identification number or reference document number
 - (2) Assembly level of part
 - (3) Nomenclature
 - (4) Reference designation (where applicable)(5) Quantity per one next higher assembly

 - (6) Current revision symbol
 - (7) Unincorporated change notice numbers
 - (8) For use on (D = development, T = test, F = flight)
 - (9) Serial number (where preassigned)
 - (10) Responsible operation code
 - (11) Documents original issue date
 - (12) Issue date of latest revision
 - Header to contain
 - (1) Contractor name and FSCM number
 - (2) Date of list issue
 - (3) Supersedes date
 - (4) System or subsystem name or contract end item number for which list is issued
 - (5) Identification number of assembly for which list is issued

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VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

1. List to be produced at any equipment level.

ORD NO.: CM-012

2. List to be produced by contractors, suppliers, vendors for their equipment levels and provided to system contractors for preparation of system list.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

- 1. List of all parts installed in an assembly indentured by assembly level.
 - a. Each line item to contain:
 - (1) Part identification number
 - (2) Nomenclature
 - (3) Quantity for next assembly
 - (4) Revision symbol to which it was fabricated, inspected, tested, assembled
 - (5) Change notice numbers incorporated in hardware
 - (6) Reference designation (if applicable)
 - (7) Serial number of part
 - (8) Next assembly identification number and serial number and contract end item number.
 - b. Header to contain:
 - (1) Date of issue and supersession date
 - (2) Identification number of assembly for which prepared
 - (3) Nomenclature of assembly for which prepared
 - (4) Serial number of assembly for which prepared
 - (5) Contractor's name and FSCM issuing list

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VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

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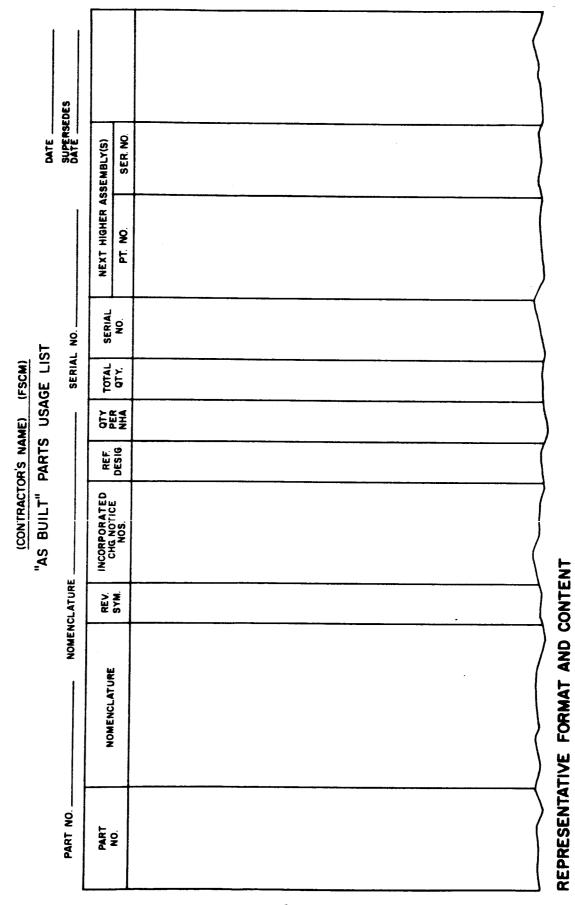
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- 1. List to be produced at any requested assembly level.
- 2. List to be produced by contractors, suppliers, vendors for their equipment levels and provided to system contractors for preparation of system lists.

SPECIAL DISTRIBUTION. (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

- 1. List of all parts installed in a system, contract end item, or component
- 2. To be listed by identification number in alpha-numeric sequence.
 - a. Each line item to contain:
 - (1) Part identification number
 - (2) Nomenclature
 - (3) Quantity per next assembly(s)
 - (4) Part serial number
 - (5) Next higher assembly number(s) and serial number(s)
 - (6) Revision symbol and change notice numbers to which part was fabricated, inspected, tested, and assembled
 - (7) Part reference designation (if applicable)
 - (8) Total quantity used for system
- 3. Header to contain:
 - a. Date of issue and supersession date
 - b. Nomenclature for assembly for which list is prepared
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SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)
OUTLINE OF CONTENTS:
1. Index to be prepared showing: a. Drawings by number
b. Drawings by subsystem, systems or componentc. Drawings by name
2. Each line item to contain:
a. Drawing number and nameb. Issue date
c. Revision date d. Revision symbol
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c. By subsystem or component	
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2. Each line to contain:	
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c. Next higher specification number(s)	
d. Prefix symbol	
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The list shall be presented by contract end item (CEI) number, CEI part number and	
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deviation or waiver. It shall also give the part number, revision symbol, and the	
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JPL 2568-1 OCT 65

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To be prepared and maintained by each contractor and subcontractor. Information contained to be provided to contractor having system responsibility. Presented alphamerically by document number.

Information to agree with specification identification number assignement log.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)
Updated record to be provided to system contractor each week.

Distribute to:

Engineering "B" and "C" level managers

QA "B" and "C" level managers

RA "B" and "C" level managers

OUTLINE OF CONTENTS:

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PAGE I OF 3

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.: CM-019

- 1. Break of inspection list shall be prepared for each CEI/serial number
- 2. Shall be prepared by contractor, subcontractor, and supplier, as applicable and supplied to the contractor with system responsibility

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

- 1. Break of inspection number
- 2. Break of inspection date
- 3. Number of component in which break occurred
- 4. Serial number of component in which break occurred
- 5. Number and serial number of item removed
- 6. Number and serial number of item installed
- 7. Contract end item number for which list prepared
- 8. Date of list

(CONTRACTOR'S NAME) (FSCM)

BREAK OF INSPECTION LIST (CEI)

FOR

CEI NO. _____ PART NO. ____

SUPERSEDES DATE

B.O.I. NO.	B.O.I. DATE	PART NO. OF COMP. WHERE BREAK OCCURED	PART NO. OF PART REMOVED	SER. NO. OF PART REMOVED	PART NO. OF PART INSTALLED	SER. NO. OF PART INSTALLED

REPRESENTATIVE FORMAT AND CONTENT

DATE DATA DRD APPROVED BY CATEGORY VOYAGER DATA REQUIREMENT DESCRIPTION DRD NO.: CONTRACT DRD PREPARED BY: CODE: OFFICE RESPONSIBLE FOR DRD: CODE DATE: ORGANIZATION ORIGINATING NO. REQUIREMENT 7/28/67 CM A. W. <u>Morris</u> CM-020 ORGANIZATION RESPONSIBLE TASK OR DRL ITEM TITLE OF DOCUMENT: FOR DOCUMENT PREPARATION: SUBTASK: NO.; Configuration <u>Management</u> LOG, CONTRACT END ITEM ASSIGNMENT ORGANIZATION RESPONSIBLE DRL NO. LEVEL NO FOR DOCUMENT REPRODUCTION NUMBER ORGANIZATION RESPONSIBLE FILE NO. DDL. NO.: FOR DOCUMENT DISTRIBUTION: TYPE OF DOCUMENT: **M**CONTROL DACTION DREFERENCE ☐ INFORMATION USE OF DOCUMENT ORGANIZATION RESPONSIBLE NO. OF COPIES: FOR DOCUMENT STOWAGE: None To assure contract end item numbers are not duplicated INFORMATION CUTOFF ESTIMATED MANHOURS FOR SINGLE PREPARATION: DATE OR MILESTONE: ESTIMATED COST (\$) DATE DATA DUE INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: FOR SINGLE PREPARATION: TO USER: SE-010 Contract End Item (CEI) Detail Specification (Prime Equipment) Part I (Requirements) FREQUENCY OF ISSUE PUBLICATION DATE: ANNUALLY SE-011 Contract End Item (CEI) Detail Specification SDR SEMI-ANNUALLY (Prime Equipment) Part II QUARTER! Y ☐ BI-MONTHLY UPDATE (FREQUENCY OR MILESTONE): ☐ MONTHLY SEMI-MONTHLY CLASSIFICATION: ☐ GROUP I BI-WEEKLY applicable ☐ SECRET ☐ GROUP 2 SPECIAL HANDLING WEEKLY CONFIDENTIAL D GROUP 3 D NASA DISCREET ËSTIMATED DAILY SECRET RESTRICTED DATA GROUP 4 EXPIRATION DATE: T OTHERWISE AS SPECIFIED CONFIDENTIAL RESTRICTED DATA ☐ PROPRIETARY PROJECT DISCREET D PUBLIC DOMAIN □ NOFORN M UNCLASSIFIED One time REFERENCE DOCUMENTS: KIND OF DATA: FORM OF DATA: PRINTED DOCUMENT ☐ ABSTRACT · ☐ INSTRUCTION CM 001BB001-01 Exhibit X, D LETTER ☐ CHART □ BROCHURE Exhibit II, Configuration ☐ DIAGRAM D BULLETIN D LIST Management Manual X LOG D DRAWING ☐ CATALOG ☐ MANUAL ☐ FILM (STATIC OR MOTION) □ CONTRACT ☐ ILLUSTRATION ☐ DIRECTIVE ☐ MEMORANDUM ☐ MINUTES ☐ MODEL D. DISCLOSURE APPLICABLE STANDARDS: ☐ RECORDING (TAPE OR DISC) ☐ PLAN D ENGINEERING CHANGE COMPUTER CARD ORDER ☐ PROCEDURE COMPUTER TAPE ☐ REQUEST FOR ENGINEER- ☐ REGULATION ING CHANGE PROPOSAL I REPORT ☐ MICROFILM (W/OR W/O CARD) ☐ ENGINEERING CHANGE ☐ SCHEDULE PROPOSAL SPECIFICATION C STANDARD □ HANDBOOK D INDEX □ VOUCHER REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL) DATE DRAFT DATE PREPUBLICATION PROOF SUBMIT FOR REVIEW TO: SUBMIT FOR APPROVAL TO: Manager, Configuration Management

GE EXHIBIT DRD CM-020

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.: CM-020

- 1. To be prepared as a log book with each contract end item number given a line.

 Upon contract end item number assignment or as information becomes available information shown below to be added for each contract end item number.
- 2. Contract end item number blocks or direct assignment to be provided subcontractors, suppliers and vendors by the contractor.
- 3. Contract end item numbers shall conform to the Configuration Management Manual CM 001BB001-1B.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

- 1. Number
- 2. CEI name
- 3. CEI specification number
- 4. CEI assembly drawing number
- 5. Operation code and name of person to whom assigned, and date of assignment.

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PAGE I OF 2

JPL 2568 OCT 65

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.: CM-021

- 1. A separate log shall be prepared and maintained for each system.
- 2. Upon request for a sequence number the date, requestors' name, and the part number shall be entered adjacent to the sequence number.
- 3. Upon ECP issue, the issue date shall be entered.
- 4. Once assigned and the ECP submitted for customer approval the sequence number shall not be reassigned even if the ECP is cancelled or disapproved.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

ECP SEQ.	ASSIG.	CEI NO.	REQUESTOR NAME	PART NO.	NOMENCLATURE	ISSUE DATE
NO.						
				·		

		DRD APPROVED BY	r :	DATE:	DATA CATEGORY		
VOYAGER DATA	REQUIREMENT DESCRIPTION	N					
ORGANIZATION ORIGINATING CODE: REQUIREMENT:	OFFICE RESPONSIBLE FOR	DRD: CODE:	DRD PREPA		7/28/67	CONTRACT NO.:	DRD NO.: CM-022
TITLE OF DOCUMENT: LOG, SPECIFICA	ATION CHANGE			organization re for document p Configurati Managemen	REPARATION:	TASK OR SUBTASK:	DRL ITEM NO.:
				ORGANIZATION RE FOR DOCUMENT RE		DRL NO.:	LEVEL NO.
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MP-003, Specification		lent Equi	pment			ļ	
(MDE)	· -	_	_	FREQUENCY (OF ISSUE:	i	TION DATE:
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PAGE I OF 3

JPL 2568 OCT 65

VOYAGER	DATA	REQUIREMENT	DESCRIPTION	-	2ND	SHEET
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SPECIAL INSTRUCTIONS:

DRD NO.: CM-022

1. A specification change log is required for each specification.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

- 1. Updated log is provided with each SCN submitted for approval to the customer.
- 2. After SCN is approved updated logs are distributed to each specification holder for insertion into the specification.

OUTLINE OF CONTENTS: A sample format is shown in CM001BB001-1B, Exhibit VII Sample "B".

Contents shall include:

- 1. Log date
- 2. Superseding date
- 3. Number of specification
- 4. SCN sequence number
- 5. SCN associated ECP numbers
- 6. Date of SCN
- 7. Pages of specification affected by SCN
- 8. CEI Number(s) affected by SCN

S OF	(DATE)
UPERSED	ING (DATE)
_	

(OPTIONAL)

SCN NO.	ECP NO.	SCN DATE	SPEC. PAGES AFFECTED	SYSTEM OR END ITEM EFFECTED	CONTRACTOR CHANGE NOTICE NO.
					:
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REPRESENTATIVE FORMAT AND CONTENT

GE EXHIBIT DRD CM-023 DATE DATA DRD APPROVED BY CATEGORY VOYAGER DATA REQUIREMENT DESCRIPTION DRD NO. CONTRACT CODE: OFFICE RESPONSIBLE FOR DRD: CODE: DRD PREPARED BY: DATE ORGANIZATION ORIGINATING CM 7/28/67 M-023Morris ORGANIZATION RESPONSIBLE TASK OR DRL ITEM TITLE OF DOCUMENT: FOR DOCUMENT PREPARATION: SUBTASK: NO.: Data Management ORGANIZATION RESPONSIBLE DRL NO.: LEVEL NO. FOR DOCUMENT REPRODUCTION: LOG, SPECIFICATION DISTRIBUTION ORGANIZATION RESPONSIBLE DDL NO.: FILE NO. FOR DOCUMENT DISTRIBUTION: TYPE OF DOCUMENT: INFORMATION CONTROL DACTION DREFERENCE USE OF DOCUMENT: NO. OF COPIES: ORGANIZATION RESPONSIBLE FOR DOCUMENT STOWAGE: Used to assure delivery of specification None change logs, indexes, configuration charts, INFORMATION CUTOFF ESTIMATED MANHOURS and approved SCN's to current holders of DATE OR MILESTONE: FOR SINGLE PREPARATION: specifications. DATE DATA DUE ESTIMATED COST (\$) INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: FOR SINGLE PREPARATION: TO USER: CM-002, Specification Change Notice CM-015, Indexes, Specification Identification FREQUENCY OF ISSUE: PUBLICATION DATE: CM-022, Log, Specification Change TI ANNUALLY SEMI-ANNUALLY SDR QUARTERLY CM-034, Charts, Configuration UPDATE (FREQUENCY ☐ BI-MONTHLY or milestone): Kept current MONTHLY SEMI-MONTHLY CLASSIFICATION: D GROUP I BI-WEEKLY GROUP 2 ☐ SECRET SPECIAL HANDLING WEEKLY ESTIMATED ☐ CONFIDENTIAL GROUP 3 I NASA DISCREET DAILY SECRET RESTRICTED DATA GROUP 4 JPL DISCREET EXPIRATION DATE: TOTHERWISE AS SPECIFIED CONFIDENTIAL RESTRICTED DATA D PROPRIETARY □ PROJECT DISCREET D PUBLIC DOMAIN □ NOFORN One time MUNCLASSIFIED REFERENCE DOCUMENTS: KIND OF DATA: FORM OF DATA: ☐ INSTRUCTION T PRINTED DOCUMENT □ ABSTRACT ☐ CHART ☐ BROCHURE ☐ LETTER O LIST DIAGRAM D BULLETIN None M LOG ☐ DRAWING ☐ CATALOG ☐ MANUAL ☐ FILM (STATIC OR MOTION) ☐ CONTRACT ☐ MEMORANDUM ☐ ILLUSTRATION ☐ DIRECTIVE D MINUTES □ MODEL DISCLOSURE APPLICABLE STANDARDS: D PLAN ☐ RECORDING (TAPE OR DISC) ☐ ENGINEERING CHANGE ☐ PROCEDURE COMPUTER CARD COMPUTER TAPE REQUEST FOR ENGINEER- REGULATION ING CHANGE PROPOSAL | REPORT ☐ MICROFILM (W/OR W/O CARD) ☐ ENGINEERING CHANGE ☐ SCHEDULE OTHER D SPECIFICATION PROPOSAL ☐ HANDBOOK ☐ STANDARD □ VOUCHER ☐ INDEX REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL) DRAFT DATE PREPUBLICATION PROOF DATE SUBMIT FOR REVIEW TO:

SUBMIT FOR APPROVAL TO Manager, Data Management

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET	•
SPECIAL INSTRUCTIONS:	DRD NO.: CM-023
Presented alphamerically by specification number.	
SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)	
OUTLINE OF CONTENTS: 1. Specification number	
2. Specification name 3. Specification holder's name and address	
4. Column for each of the following data items a. Specification change log	
b. Specification identification index c. Configuration chart	
d. Specification change notice	
(Note: Each column to be filled in with date of transmittal.)	

					DRD APPROVED BY	r :	DATE:	DATA
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☐ DIAGRAM		- BULLETIN	D LIST		1	01-10		
☐ DRAWING		☐ CATALOG	DE LOG		Exhibit X			
☐ FILM (STATIC OR MOT	ION)	□ CONTRACT	D MAN	_	1			
- ILLUSTRATION		☐ DIRECTIVE		ORANDUM				
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SPECIAL INSTRUCTIONS:

drd no.: CM-024

- 1. To be prepared and maintained by each contractor and sub-contractor.
- 2. A separate log will be maintained for each specification.
- 3. Log to be constructed in four sections as follows:

Section I - System Performance/Design Requirements Specifications (Prefix SS)

Section II - CEI Detail Specifications (Prefix, CP, CF, CD & CR)

Section III - Component Specifications (Prefix EC)

Section IV - Company Standards (Prefix ST)

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

No distribution required. Shall be readily available for routine surveillance by the GE or JPL local representative.

OUTLINE OF CONTENTS:

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·			CCBD, CCN, ETC.					

REPRESENTATIVE FORMAT AND CONTENT

1	GE EX	HIBIT I	RD CM-	025			
VOYAGER DATA	REQUIREMENT DESCRIPTION			DRD APPROVED (BY:	DATE)	DATA CATEGORY:
ORGANIZATION ORIGINATING CODE: REQUIREMENT:	OFFICE RESPONSIBLE FOP	DRD: CODE:	DRD PREPA	RED BY:	DATE:	CONTRACT NO.:	DRD NO.:
CM			A. W.	Morris	7/28/67		CM-025
TITLE OF DOCUMENT:				organization for document Configuration	PREPARATION: On	TASK OR SUBTASK:	DRL ITEM NO.;
	IGURATION MANA PROCEDURES	AGEMEI	ΝΤ	Managemer ORGANIZATION I FOR DOCUMENT I	RESPONSIBLE	DRL NO.:	LEVEL NO.:
				ORGANIZATION FOR DOCUMENT		DDL NO.:	FILE NO.:
TYPE OF DOCUMENT: CONTROL	DACTION DREFERENCE	□ INFORM	IATION				<u></u>
USE OF DOCUMENT: Used to pre	scribe the require	ements		ORGANIZATION		NO. OF	COPIES:
			conduct	FOR DOCUMEN	IT STOWAGE:		
practices, procedures a		tor the	conduct			5	50
of configuration manager	nent activities.			ESTIMATED FOR SINGLE PE			ION CUTOFF MILESTONE:
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VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO. CM-025

- 1. Shall reflect the requirements of the approved configuration management plan for each system contractor, subcontractor, supplier, and vendor.
- 2. Shall be available for monitoring, and audit by the customer and/or system contractor.
- 3. Contractor format acceptable.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

- 1. All "A", "B", and "C" level managers
- 2. All members of Configuration Control Board
- 3. Customer Data Manager
- 4. Customer Manager Configuration Management
- 5. Copies may be provided with approved request.

OUTLINE OF CONTENTS:

- 1. Shall include the approved procedures and practices used in performing the configuration management functions of identification, control, and accounting.
- 3. Title sheet to include-
 - 1. Name of manual
 - 2. Number
 - 3. Issue/revision date
 - 4. Index of contents
 - 5. Local approvals

(MANUAL, CONFIGURATION MANAGEMENT PROCEDURES)

REPRESENTATIVE OUTLINE OF CONTENTS

Section 1 - Configuration management

- 1. Scope
- 2. Policies
- 3. Responsibilities
- 4. Requirements

Section 2 - Configuration identification

- 1. Requirements
- 2. Responsibilities
- 3. Drawing numbers
- 4. Specification numbers
- 5. Change numbers
- 6. Part numbers
- 7. CEI numbers
- 8. Serial numbers
- 9. Parts marking
- 10. Interchangeability

Section 3 - Data Release

- 1. Requirements
- 2. Responsibilities
- 3. Procedures
- 4. Records
- 5. Approvals

Section 4 - Automatic Data Processing (ADP)

- 1. Requirements
- 2. Responsibilities
- 3. Procedures

Section 5 - Configuration Control

- 1. Configuration Control Board(s)
- 2. Design change request
- 3. Change notice (CID, EO, AN, Etc.)
- 4. Specification change notice (SCN)

- 5. Engineering Change Proposal (ECP)
- 6. Change processing
- 7. Procedures

Section 6 - Configuration Accounting

- 1. Requirements
- 2. Responsibilities
- 3. Procedures

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OUTLINE OF CO	NTENTS: This plan shall contain sufficient information concerning the following the contracting agency that the contractor has developed the proper methods	s, pro-
cedures	and organization to meet the objectives of configuration management:	
1.	Organizational structure and relationships (administrative and functional) Responsibility assignments.	
2. 3.	Relationships of configuration management with other functional management	ent
	categories. Methods and responsibilities for baseline, establishment, identification an	
4.	trol	
5.	Methods and procedures to be used in and responsibilities for control of cr	nanges in
6.	design. Methods and procedures to be used in and responsibilities for configuration	n account-
	ing and configuration verification.	
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VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.: CM-027

- 1. Procedure to be prepared by each contractor, subcontractor, supplier,
- 2. Procedure(s) will be reviewed by the contractor and/or the customer as applicable.
- 3. Shall be available for surveillance by the customer or contractor local representative.
- 4. Contractor format acceptable.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

- 1. Establish organizational responsibilities
- 2. Definition of policies, requirements, and operating procedures related to the control of changes.
- 3. Title sheet to contain
 - a. Procedure title
 - b. Procedure number
 - c. Issue date
 - d. Responsible organization title.

(CHANGE CONTROL PROCEDURES)

REPRESENTATIVE OUTLINE OF CONTENTS

- 1. Scope
- 2. Policy
- 3. Procedure
- 4. Responsibility
- 5. Requirements

VOYAGER DATA REQUIREMENT DESCRIPTION				DATE:	DATA CATEGORY		
ORGANIZATION ORIGINATING CO	DE: OFFICE RESPONSIBLE FOR	R DRD: CODE: DRD PRE	PARED BY: DATE:	CONTRACT	DRD NO.:		
REQUIREMENT: C	M	A.W.	Morris 7/28/67	NO.:	CM-028		
TITLE OF DOCUMENT:	organization responsible for document preparation: Configuration Management	TASK OR SUBTASK:	DRL ITEN NO.:				
PROCEDURE, CONFIG (ADMINISTRATIVE)	GURATION CONTRO	OL	ORGANIZATION RESPONSIBLE FOR DOCUMENT REPRODUCTION		LEVEL NO.		
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VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET	
 SPECIAL INSTRUCTIONS: Each contractor, subcontractor, vendor and supplier will prepare and submit a procedure. Procedure will be compatible with overall Voyager project requirements. System contractor will audit conformance to procedure. 	DRD NO.: CM-028
SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)	
OUTLINE OF CONTENTS: 1. Establishes meeting times 2. Agenda preparation and distribution	
 Agenda preparation and distribution Meeting procedures Problem solving methods Proposed change submittal methods and timing Change distribution requirements Report preparation and distribution requirements Responsible organization Contractor's name and FSCM 	

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VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.: CM-029

- 1. Procedure to be prepared by each contractor.
- 2. Procedure to be consistent with customer requirements.
- 3. Procedures of subcontractor, suppliers and vendors to be reviewed and approved by system contractors for compatibility to overall data processing (DP) system.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

- 1. Establish organizational input responsibilities
- 2. Establish data flow
- 3. Establish punched card formats
- 4. Establish DP input requirements and format
- 5. Establish output formats to meet user requirements
- 6. Title sheet to contain
 - a. Title
 - b. Number
 - c. Issue date
 - d. Responsible organization
 - e. Company name and FSCM

1.	Scope
	DOOP.

- 2. Policies
- 3. Responsibilities
- 4. Procedures
- 4.1 Input
- 4.1.1 Content
- 4.1.2 Format
- 4.1.3 Timing
- 4.1.4 Processing
- 4.2 Output
- 4.2.1 Content
- 4.2.2 Format
- 4.2.3 Timing
- 4.2.4 Processing
- 4.2.5 Distribution

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JPL 2568 OCT 65

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1.	Responsibility for review arrangements i.e., invitations, agenda, facilities	,
	material and data package accumulation.	
2.	Review procedures.	
3.	Responsibility for review report and its contents.	
4. 5.	Responsibility for follow-up actions on review report. Responsibility for accumulating data package to be used at review.	
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JPL 2568 OCT 65

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.: CM-031

- 1. Procedures to be prepared by each contractor, subcontractor, supplier and vendor.
- 2. Procedure will be reviewed by the contractor and/or customer as applicable.
- 3. Shall be available for surveillance by the customer or contractor local representative.

 Contractor format acceptable.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

- 1. Establish organizational responsibilities
- 2. Establish requirements the document must fulfill for release.
- 3. Establish data flow from creation through dissemination.
- 4. Establish format and content of release documentation.
- 5. Title sheet to contain
 - a. Title of procedure
 - b. Number
 - c. Issue date
 - d. Responsible organization title
 - e. Company name and FSCM

ATTACHMENT

REPRESENTATIVE OUTLINE OF CONTENTS

- 1. Scope
- 2. Policy
- 3. Procedure
- 4. Responsibility
- 5. Requirements

GE EXHIBIT DRD CM-032 DATE: DATA DRD APPROVED BY: CATEGORY VOYAGER DATA REQUIREMENT DESCRIPTION DRD NO. CONTRACT DRD PREPARED BY: DATE CODE: OFFICE RESPONSIBLE FOR DRD: CODE ORGANIZATION ORIGINATING NO. REQUIREMENT CM-032A. W. Morris 7/28/67 CM ORGANIZATION RESPONSIBLE TASK OR DRL ITEM TITLE OF DOCUMENT: FOR DOCUMENT PREPARATION: Configuration SUBTASK: NO.; Management ORGANIZATION RESPONSIBLE DRL NO. LEVEL NO. INSTRUCTION, CHANGE DOCUMENT FOR DOCUMENT REPRODUCTION PREPARATION FILE NO. ORGANIZATION RESPONSIBLE DDL NO.: FOR DOCUMENT DISTRIBUTION: TYPE OF DOCUMENT: DREFERENCE **MINFORMATION** □ CONTROL DACTION NO. OF COPIES: ORGANIZATION RESPONSIBLE USE OF DOCUMENT FOR DOCUMENT STOWAGE: 50 Used to provide instruction in the preparation of INFORMATION CUTOFF ESTIMATED MANHOURS change documents. DATE OR MILESTONE: FOR SINGLE PREPARATION: DATE DATA DUE ESTIMATED COST (\$) FOR SINGLE PREPARATION: TO USER: INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: CM-001, Engineering Change Proposal (ECP) FREQUENCY OF ISSUE: PUBLICATION DATE: CM-003, Change Notice CM-027, Procedure, Change Control ☐ ANNUALLY SDR SEMI-ANNUALLY CM-033, Instruction, Change Submittal & Approval QUARTERLY UPDATE (FREQUENCY CM-045, Request, Design Change BI-MONTHLY OR MILESTONE): ☐ MONTHLY
☐ SEMI-MONTHLY As required CLASSIFICATION: J GROUP I BI-WEEKLY D SPECIAL HANDLING GROUP 2 □ SECRET WEEKLY NASA DISCREET ESTIMATED GROUP 3 ☐ CONFIDENTIAL D DAILY DA OTHERWISE, AS SPECIFIED EXPIRATION DATE: SECRET RESTRICTED DATA PROJECT DISCREET CONFIDENTIAL RESTRICTED DATA PROPRIETARY One time D PUBLIC DOMAIN II NOFORN **MUNCLASSIFIED** REFERENCE DOCUMENTS: KIND OF DATA: FORM OF DATA: CM001BB001-1B Exhibits VIII and X INSTRUCTION ☐ ABSTRACT EXPRINTED DOCUMENT IX, Configuration Management D LETTER ☐ BROCHURE CHART O LIST Manual D BULLETIN ☐ DIAGRAM □ LOG Air Force Bulletin ANA445 CATALOG ☐ DRAWING □ MANUAL ☐ CONTRACT ☐ FILM (STATIC OR MOTION) I MEMORANDUM ☐ DIRECTIVE ☐ ILLUSTRATION ☐ MINUTES □ DISCLOSURE APPLICABLE STANDARDS: D PLAN ☐ ENGINEERING CHANGE ☐ RECORDING (TAPE OR DISC) C PROCEDURE ORDER C COMPUTER CARD □ REQUEST FOR ENGINEER- □ REGULATION COMPUTER TAPE ING CHANGE PROPOSAL I REPORT ☐ MICROFILM (W/OR W/O CARD) □ ENGINEERING CHANGE □ SCHEDULE □ OTHER ☐ SPECIFICATION PROPOSAL ☐ STANDARD ☐ HANDBOOK □ VOUCHER O INDEX REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL) DATE PREPUBLICATION PROOF DATE DRAFT SUBMIT FOR REVIEW TO:

PAGE I OF 2

Manager, Configuration Management

SUBMIT FOR APPROVAL TO:

JPL 2568 OCT 65

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.:

CM-032

- 1. Engineering change proposal format per ANA445.
- 2. Change notices may be contractor, subcontractor, etc. format.
- 3. Subcontractor, etc., procedures will be reviewed and monitored by system contractor.
- 4. Local format acceptable.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

- 1. Description of content and meaning of each block entry.
- 2. Responsibility for entering each block.
- 3. Title sheet to contain:
 - a. Number
 - b. Title
 - c. Date of issue
 - d. Responsible organization
 - e. Company name and FSCM

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VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.: CM-033

- 1. To be prepared by each contractor, subcontractor, supplier, vendor.
- 2. Local format acceptable.
- 3. To be available for review and audit by systems contractor or JPL as applicable.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

- 1. Provide names and organization whose approvals are required for release of a change document per kind of document being changed. (i.e., drawings, specifications, procedures, etc.)
- 2. Provide change document flow from preparation to dissemination showing responsibilities decision points, etc.
- 3. Title sheet to contain:
 - a. Number
 - b. Name
 - c. Issue date
 - d. Responsible organization
 - e. Company name and FSCM

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VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.: CM-034

A configuration chart shall be prepared for each specification.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

The configuration chart is updated concurrently with each total revision to a specification and distributed with the revised specification.

Note: The old specification change log will be discarded and a new one started.

OUTLINE OF CONTENTS:

- 1. Specification number and date of issue
- 2. Superseding date
- 3. Revision symbol and ECP's incorporated per revision.
- 4. Date of specification revision
- 5. Serial number effectivity of ECP

Note: Configuration chart will be maintained as a continuous record.

	(CONTRACTOR'S NAME)	DATESUPERSEDES
	CONFIGURATION CHART	DATE
SPEC. NO	SPEC. TITLE	
DATE OF ISSUE_		

REVISION SYMBOL AND DATE OF REVISION	INCORPORATED ECP NUMBERS	PRODUCTION SERIAL NUMBER EFFECTIVITY			

REPRESENTATIVE FORMAT AND CONTENT

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VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.: CM-035

Shall be maintained by each system contractor, subcontractor, vendor and supplier.

Shall be supplied to system contractor and the customer upon request.

Shall be prepared in drawing number sequence.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

No distribution except on request.

OUTLINE OF CONTENTS:

- 1. Drawing number
- 2. Required functional organization approval codes, i.e.:
 - a. Design engineering
 - b. Vibration
 - c. Stress
 - d. Thermal
 - e. Reliability
 - f. Quality assurance
 - g. Manufacturing engineering
 - h. EMI
 - i. Customer
- 3. Due date for each code
- 4. Approved date for each code
- 5. Date of list issue
- 6. Contractor name and FSCM number

				DRD APPROVED BY		DATE:	DATA
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PAGE I OF 3

JPL 2568 OCT 65

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO. CM-

A record card (or equivalent) shall be prepared and maintained for each drawing 1. and associated list by contractors, subcontractors, suppliers and vendors.

Recorded information to be provided upon request and made available for audit by local 2. customer and/or GE representative.

Information to be recorded at drawing release and maintained during subsequent actions. 3.

Drawing numbers and change notice numbers shall be controlled. 4.

Duplicate numbers shall not be assigned. 5.

Drawing numbers to be provided by drawing originator unless otherwise instructed. 6.

Drawing numbers shall conform to MIL-STD-31. 7.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

No distribution required. Log to be available for routine surveillance.

OUTLINE OF CONTENTS:

- Drawing number (including parts list (PL), drawing list (DL), etc., where applicable). 1.
- Drawing title 2.
- FSCM number 3.
- Drawing size 4.
- Number of sheets 5.
- Date of release/issue 6.
- Type of drawing (i.e., assembly, detail, diagram, etc.) 7.
- Change notice number assigned, to whom and date 8.
- Revision symbol assigned to whom and date 9.
- Change notice numbers incorporated, date of incorporation, and related revision symbol. 10.
- Revision release date 11.
- Responsible operation code 12.
- Draftsman's name 13.
- Next higher assembly(s) number 14.
- CEI number(s) where installed 15.
- Security classification 16.
- Approved by (code), date for each 17.

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PAGE I OF 2

JPL 2568 OCT 65

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS.

ORD NO.: CM-037

- 1. Printouts to be produced in alphanumerical sequence by item identification number (part number).
- 2. Records shall be maintained by each contractor, subcontractor, and supplier as applicable.
- 3. Applies only to serial numbered items.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

To be available for routine surveillance by local GE and/or JPL representative.

Copies to be provided on request.

OUTLINE OF CONTENTS:

- 1. Each line item shall contain:
 - a. Item identification
 - b. Item serial number
 - c. Where installed identification number
 - d. Where installed serial number
 - e. CEI number where installed
 - f. Date of installation
 - g. If discarded, date of discard

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VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

- 1. Presented by change notice/request number in alpha-numeric sequence.
- 2. Cut off date for monthly report to be last Friday of each calendar month.
- 3. Daily reports to be consolidated into weekly reports, weekly reports to be consolidated into monthly reports.
- 4. To be provided by subcontractor, supplier, vendor to system contractor.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

- 1. Change notice number
- 2. Nomenclature of item for which change/request was written
- 3. Next higher assembly number (if applicable)
- 4. Date of release of report
- 5. Change notice/request approval date
- 6. Class of change
- 7. Design change request number
- 8. Contractor name and FSCM making report
- 9. If held, basic reason for hold
- 10. If held, projected approval date

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

DRD NO.: CM-

038

VOYAGER	DRD APPROVED BY		DATE:	DATA CATEGORY:			
ORGANIZATION ORIGINATING C	CODE: OFFICE RESPONSIBLE FOR	DRD: CODE	DRD PREP	ARED BY:	DATE:	CONTRACT	DRD NO.:
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1.	Number of documents rejected because of quality	
2.	Accuracy of data processing (DP)inputs/outputs	
3.	Timeliness of lists, reports, etc.	
4.	Adequacy of procedures	
5.	Conformance to procedures	

VOYAGER DATA REQUIREMENT DESCRIPTION								DATA CATEGORY:
VOYAGE	R DATA RE	QUIREMENT DESCRIPTION						DRD NO.:
ORGANIZATION ORIGINATING	CODE: 0	FFICE RESPONSIBLE FOP DRD	CODE	DRD PREPA	ARED BY:	DATE:	CONTRACT NO.:	DRU NO
REQUIREMENT:	СМ			A. W.	Morris	7/28/67		CM-041
ITLE OF DOCUMENT	OM				ORGANIZATION RE		TASK OR SUBTASK:	DRL ITEM NO.:
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					Contract			
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CM-020 Log, Co	ntract	End Item Assignme	116 INU	imber	☐ ANNUALLY ☐ SEMI-ANNUA	LLY	P	DR
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DRAWING		☐ CATALOG	□ LOG		Configuration	on Manag	gement M	I anual
☐ FILM (STATIC OR MO	TION)	□ CONTRACT	□ MAN					
☐ ILLUSTRATION		D DIRECTIVE		AORANDUM				
☐ MODEL		□ DISCLOSURE	D PLA		APPLICABLE ST	ANDARDS:		
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VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS

ord no.: CM-041

- 1. Applies only after delivery of CEI to customer
- 2. Report shall be report on a CEI level basis.
- 3. Where a consolidated CEI contract status report is produced it shall be given in CEI number sequence.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

- 1. CEI number
- 2. Federal supply code
- 3. CEI identification number
- 4. ECP number
- 5. ECP approval date
- 6. Quantity of items to be modified
- 7. Number of CCN, etc. authorizing engineering effort
- 8. Number of CCN, etc. authorizing TCTO preparation
- 9. Number of CCN, etc. authorizing Mod. kit procurement
- 10. Quantity of kits authorized
- 11. Number of CCN, etc. authorizing modification of CEI
- 12. Number of CCN, etc. authorizing mod. kits for spares
- 13. Number of CCN, etc. authorizing spares modification
- 14. Number of CCN, etc. authorizing updating of technical publications
- 15. Symbol signifying contractor receipt of all contract authorizations
- 16. Date of report
- 17. Name and FSCM of contractor making report

DATA DATE DRD APPROVED BY: CATEGORY VOYAGER DATA REQUIREMENT DESCRIPTION CONTRACT NO.: DRD NO. DATE: DRD PREPARED BY OFFICE RESPONSIBLE FOR DRD CODE CODE ORGANIZATION ORIGINATING REQUIREMENT: CM-042 7/28/67CMTASK OR DRL ITEM ORGANIZATION RESPONSIBLE NO: TITLE OF DOCUMENT: FOR DOCUMENT PREPARATION: SUBTASK: Manufacturing REPORT, HARDWARE STATUS ORGANIZATION RESPONSIBLE DRL NO. LEVEL NO. FOR DOCUMENT REPRODUCTION ORGANIZATION RESPONSIBLE DDL NO. FILE NO. FOR DOCUMENT DISTRIBUTION: M INFORMATION TYPE OF DOCUMENT: DREFERENCE DACTION ☐ CONTROL NO OF COPIES. ORGANIZATION RESPONSIBLE USE OF DOCUMENT: FOR DOCUMENT STOWAGE: 10 - 20Used to assist in change effectivity determination and material disposition. INFORMATION CUTOFF ESTIMATED MANHOURS DATE OR MILESTONE: FOR SINGLE PREPARATION: DATE DATA DUE ESTIMATED COST (\$) TO USER: FOR SINGLE PREPARATION INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: CM-001 Engineering Change Proposal (ECP) PUBLICATION DATE: FREQUENCY OF ISSUE: Change document preparation, submittal and approval T ANNUALLY CDR SEMI-ANNUALLY procedures QUARTERLY UPDATE (FREQUENCY CM-002 Specification Change Notice IT BI-MONTHLY OR MILESTONE): MONTHLY CM-003 Change Notice SEMI-MONTHLY Kept current CLASSIFICATION: GROUP I BI-WEEKLY SPECIAL HANDLING GROUP 2 ☐ SECRET WEEKLY ESTIMATED D NASA DISCREET GROUP 3 O CONFIDENTIAL EXPIRATION DATE: SECRET RESTRICTED DATA OTHERWISE, AS SPECIFIED PROPRIETARY PROJECT DISCREET CONFIDENTIAL RESTRICTED DATA □ NOFORN D PUBLIC DOMAIN M UNCLASSIFIED REFERENCE DOCUMENTS: KIND OF DATA: FORM OF DATA: ☐ INSTRUCTION ☐ ABSTRACT # PRINTED DOCUMENT None □ LETTER ☐ BROCHURE ☐ CHART □ LIST T BULLETIN □ DIAGRAM □ LOG ☐ CATALOG ☐ DRAWING MANUAL ☐ FILM (STATIC OR MOTION) ☐ CONTRACT □ MEMORANDUM ☐ DIRECTIVE ☐ ILLUSTRATION ■ MINUTES D DISCLOSURE □ MODEL APPLICABLE STANDARDS: ☐ ENGINEERING CHANGE ☐ PLAN ☐ RECORDING (TAPE OR DISC) ☐ PROCEDURE ORDER COMPUTER CARD ☐ REQUEST FOR ENGINEER- ☐ REGULATION COMPUTER TAPE ING CHANGE PROPOSAL TO REPORT ☐ MICROFILM (W/OR W/O CARD) □ ENGINEERING CHANGE □ SCHEDULE OTHER PROPOSAL D SPECIFICATION C STANDARD ☐ HANDBOOK □ VOUCHER ☐ INDEX REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL) DATE PREPUBLICATION PROOF DATE DRAFT SUBMIT FOR REVIEW TO: BY SUBMIT FOR APPROVAL TO: Manager, Manufacturing

GE EXHIBIT DRD CM-042

PAGE I OF_3

JPL 2568 OCT 65

VOYAGER	DATA	REQUIREMENT	DESCRIPTION	_	2ND	SHEET
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SPECIAL INSTRUCTIONS:

DRD NO.:

CM-042

Report to list status in part number sequence and shall include serial number and contract end item where applicable.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

- 1. Status information (by serial number, part number, contract end item numbers) shall include:
 - a. Number completed
 - b. Number in bonded stock
 - c. Number installed
 - d. Number shipped
 - e. Number in process
 - (1) Percent complete
 - f. Number on order
- 2. Header to contain:
 - a. Date
 - b. Preparer (FSCM)

(CONTRACTOR'S	NAME)	(FSCM)
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DATE		
SUPE	RSEDES	

PART NUMBER	SER. NO.	CEI NO.	NO. COMPL.	NO. IN BONDED ST.	NO. INSTLD	NO. SHIPPED	NO. IN PRO. B.% COMP.	NO. ON ORDER
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REPRESENTATIVE FORMAT

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ORGANIZATION ORIGINATING	LUDE.	OFFICE RESPONSIBLE FOR	DRD: CODE:	DRD PREPA	RED BY:	DATE:	CONTRACT	DRD NO.:
REQUIREMENT:	CM	OFFICE NEOFONDIESE		A.W.		7/28/67	NO.:	CM-043
TITLE OF DOCUMENT	CIVI			A. W	ORGANIZATION RE	SPONSIBLE	TASK OR	DRL ITEM
TITLE OF DOCUMENT.					FOR DOCUMENT PE		SUBTASK:	NO.:
		mr. C			Manufactur	ing		
REPORT, SPARE					ORGANIZATION RE		DRL NO.:	LEVEL NO.:
(CONTRACT END	ITEM	1)			, on bossiment			
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DIAGRAM		D BULLETIN	□ LIST		Configuratio	n Manag	ement	
☐ DRAWING ☐ FILM (STATIC OR MO	TION)	☐ CATALOG ☐ CONTRACT	□ MAN	UAL	Manual			
ILLUSTRATION	,	□ DIRECTIVE	□ MEM	ORANDUM				
□ MODEL		D DISCLOSURE	□ MIN	UTES				
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PAGE I OF 2

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.: CM-043

- 1. This report shall be prepared on a contract end item level basis.
- 2. Where a consolidated contract end item spares status report is produced it shall be given in contract end item number sequence.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

- 1. Contract end item number
- 2. Federal supply code
- 3. Item identification number of contract end item
- 4. ECP number
- 5. Identification number of affected spare
- New identification number of spare after change (if applicable) 6.
- 7. Quantity of spares affected
- 8. Serial numbers of spares changed
- 9. Contractor's change schedule (i.e.: production, modification, complete)
- 10. Kit delivery schedule
- 11. Authorizing change notice number and date of approval
- 12. Date of report
- 13. Name and FSCM of contractor making report

				DRD APPROVED B	y:	DATE:	DATA
VOYAGER D	DAD ATTROVES ST			CATEGORY.			
ORGANIZATION ORIGINATING	E OFFICE RESPONSI	BLE FOR DRD CODE	DRD PREP	ARED BY:	DATE:	CONTRACT	DRD NO.1
ORGANIZATION ORIGINATING COREQUIREMENT:	i	BEE TON DIB. CODE	A.W.	Morris	7/28/67	NO.1	CM-044
TITLE OF DOCUMENT:				ORGANIZATION RI		TASK OR SUBTASK	DRL ITEM NO.:
				1		505	,,,,
				Manufactu		L	
REPORT, UPDATING	MODIFICATION	ON		ORGANIZATION R		DRL NO.	LEVEL NO.:
STATUS				POR DOCOMERT N	Er Nobbo Holl		
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INTERRELATIONSHIP WITH OTHER	ATA REQUIREMENTS			FOR SINGLE PR		TO	USER:
CM-001, Engineering				FREQUENCY	OF ISSUE:	PUBLICA	TION DATE:
LS-025, Report, Mod	neation Kit St	atus		ANNUALLY		PD	R
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JPL 2568 OCT 65

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS

DRD NO.:

CM-044

- 1. Prepared on a CEI level basis
- 2. Where a consolidated CEI report is produced it shall be given in CEI number sequence.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

- 1. CEI number
- 2. Federal supply code
- 3. CEI part number
- 4. ECP number
- 5. Location of CEI (production, depot, stock, field, etc.)
- 6. Serial number of CEI
- 7. New CEI part number (if required)
- 8. Type of ECP
- 9. Mod kit schedules
- 10. Date of report
- 11. Name and FSCM of contractor making report

					DRD APPROVED BY		DATE	DATA CATEGORY.
VOYAGE	ER DATA	REQUIREMENT DESCRIPTION						
ORGANIZATION ORIGINATING	CODE:	OFFICE RESPONSIBLE FOR	DRD: CODE	DRD PREPA	RED BY:	DATE:	CONTRACT NO.:	DRD NO.:
REQUIREMENT:	СМ			A. W. M	Morris	7/28/67		CM-045
TITLE OF DOCUMENT:	11			1	ORGANIZATION I	RESPONSIBLE	TASK OR	DRL ITEM
					FOR DOCUMENT		SUBTASK:	NO.:
					System En			
REQUEST, DESIGN	CHA	NGE			ORGANIZATION		DRL NO.:	LEVEL NO.:
					ORGANIZATION	RESPONSIBLE	DDL NO.;	FILE NO.
					FOR DOCUMENT			
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CM-032 Instruction	-	•	•		SEMI-ANNU	ALLY	s	DR
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VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.: CM-045

- 1. Subcontractor, supplier, vendor formats are acceptable if containing at least the specified contents.
- 2. There shall be a minimum of four copies for each DCR.
 - a. Originator
 - b. Engineering
 - c. Record
 - d. Return to originator copy

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

- 1. Request number
- 2. Decision needed by (date)
- 3. Equipment name for which change is requested
- 4. Document number and part number (if applicable) for which change is requested.
- 5. Description of requested change
- 6. Reason change is needed
- 7. Other documents/equipments affected
- 8. Requestor's operation code
- 9. Requestor by name
- 10. Date of request
- 11. Status of equipment for which change is requested (fabricated, tested, not fabricated, etc.)
- 12. Recommended material disposition (scrap, rework, reorder, retest, etc.)
- 13. Request approval/rejection (name and date)
- 14. Rejection reason

(COMPANY NAME) (FSCM) DESIGN CHANGE REQUEST

REQUEST NO.	REQUESTED BY	OPER. CODE	REQUEST DATE
ANSWER BY	EQUIPMENT NAME	DOCUMENT (DR PT. NO.
OTHER DOCUMENTS/E			
DESCRIPTION OF CHA	NGE		
	REPRESENT	ATIVE FORMAT AND ONTENT ONTENT	
EQUIPMENT STATUS	DOCUMENT STATUS	RECOMMENDED MT	L. DISPOSITION
- COMPLETE	- ISSUED	- SCRAP	- USE STOCK ON HAND
- IN PROCESS	- IN PROCESS	- REWORK	- USE UNTIL NEW STOCK
- IN TEST	- OTHER	- REORDER	AVAILABLE, THEN SCRAP
- MTL ACCUMULATE	- NOT AFFECTED	- RETEST	- NOT AFFECTED
- PLANNING COMP.	- AN REQ'D	- RECERTIFY	
- NOT STARTED	— ECP, SCN REQ'	D	
APPROVAL/REJECTIO	N		
COGNIZANT ENGINEER	DATE	YES NO	
CCB CHAIR.	DATE	YES NO	
REASON FOR REJECT	ION		

DOCUMENTATION RELATIONSHIP TREES

A documentation relationship tree has been prepared to show the relationships of data items within each functional category as well as their relationships across categories.

Relationships within each functional category are shown by constructing a tier pattern beginning with the top-level (or governing) data item and relating in descending order all data items within the category to this top-level data item. (The location of a data item at a given level on the diagram does not necessarily indicate the importance of that specific item but identifies and defines its relation to all other data items in that category.)

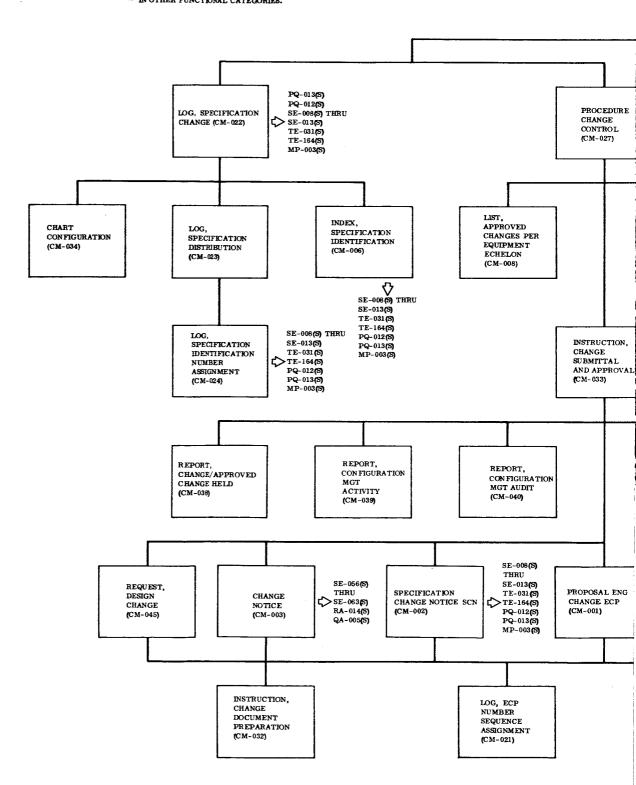
Relationships between data items in one category and data items in other functional categories are shown by (1) shaded arrows to indicate the direction of the relationship and (2) an alphabetic code to indicate the nature of the interrelationship as follows:

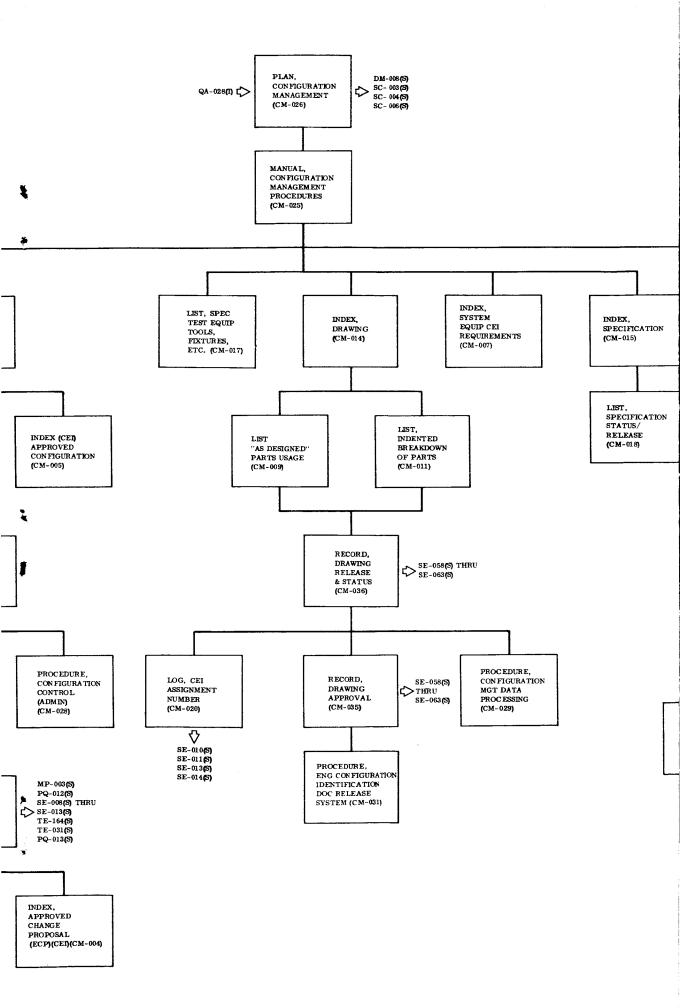
- a. Data items needed for preparation and/or support of the referenced item. (I)
- b. Data items that are supported or needed by this data item. (S)
- c. Data items that relate "to" and provide information of a general nature but are not required in an input or support role. (G)

Each data item appearing on the Data Item List (DIL) was examined and evaluated with respect to its contribution to, or dependence upon, data items appearing in other categories and is included in the diagrams. Additionally, certain data elements indicated in the user flow diagrams (but currently not identified as individual data items) have been shown within a dashed rectangle to clarify relationships.

LEGEND:

- (I) INDICATES DATA ITEMS NEEDED FOR PREPARATION OR SUPPORT OF THE REFERENCED ITEM (INPUT).
- (8) INDICATES DATA ITEMS THAT ARE SUPPORTED OR NEEDED BY THIS ITEM.
- (G) DATA ITEMS THAT RELATE TO AND PROVIDE INFORMATION OF A GENERAL NATURE BUT ARE NOT REQUIRED IN AN INPUT OR SUPPORT ROLE
- A INDICATES PRINCIPAL RELATIONSHIP (I, S, OR G) BETWEEN DATA ITEMS IN OTHER FUNCTIONAL CATEGORIES.





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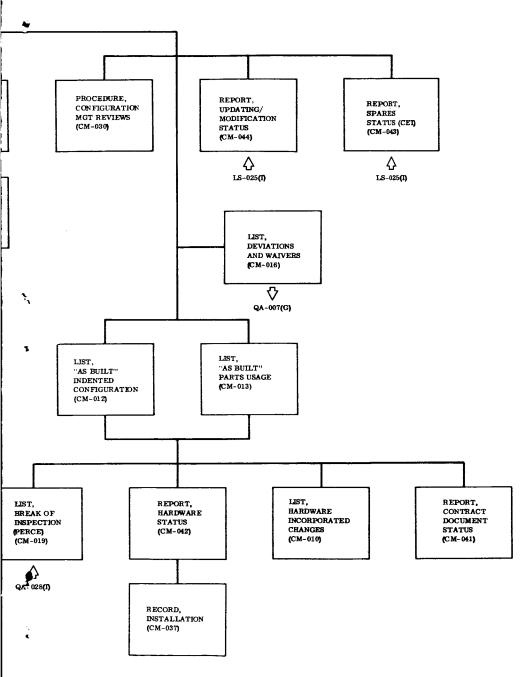


Figure D-1. Configuration Management Documentation Relationship Tree (CM)

DATA ITEM PHASING/FREQUENCY

Quantities and phasing of data items associated with the Configuration Management function are shown in Figure D-2. As the primary function of Configuration Management is to identify, control and account for hardware configuration, data item requirements necessary to perform these activities are a function of the total hardware requirement. Estimates of the total hardware requirement as proposed in the Phase IB Configuration Management Plan were used as a basis for preparation of data item estimates. Phasing requirements are shown by Project review periods.

Following are the definitions, ground rules, and assumptions on which these estimates are based:

a. Definitions

- 1. Component A number of parts or subassemblies or any combination thereof joined together to perform a specific function.
- 2. Subassembly Two or more parts which form a portion of an assembly or a unit replaceable as a whole, but having a part or parts which are individually replaceable.
- 3. Part One piece, or two or more pieces joined together which are not normally subject to disassembly without destruction of designed use.

b. Ground Rules

- 1. Numbers include items designed specifically for Voyager. <u>Do not</u> include off-the-shelf items.
- 2. Estimates do not include:
 - (a) Government, NASA or industrial specifications
 - (b) nut, bolt, rivet kinds of hardware
- 3. Each component and subassembly drawing will have a parts list.
- 4. After HDR no drawing will be revised without an alteration notice.
- 5. After approval, no specification will be revised without an SCN.

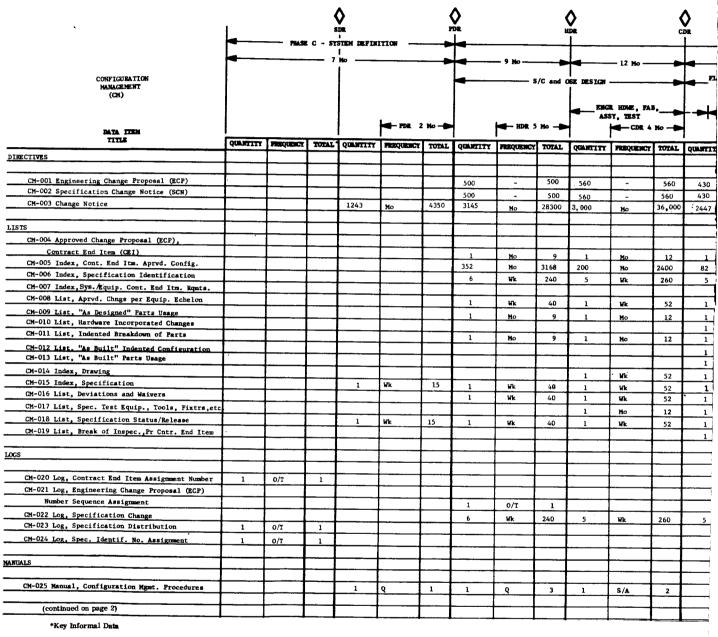
- 6. SCN's and ECP's will be prepared on a one-for-one basis.
- 7. Specifications are revised only at customer's request.

c. Spacecraft Assumptions

- 1. Twenty-eight prime equipment CEI's (CP)
- 2. Thirty-six identification item CEI's (CD)
- 3. Eighty-five engineering critical components (EC)
- 4. Each CD will average 11 subassemblies.
- 5. Each EC will average 24 subassemblies
- 6. Each assembly PL will contain 34 line items (average)
- 7. Of the 34 line items, seven will be new drawings for that assembly (average).
- 8. During the life of the Project, 10 percent of the drawings will be new starts; each drawing will be revised two times (average).
- 9. During the life of the Project, each drawing will have four change notices written against it (average).
- 10. There will be 28 CP Specifications; 36 CD Specifications; and 85 EC Specifications.
- 11. Each of the above will have three other specifications in support (average).
- 12. There will be 200 standard specifications.
- 13. Each specification will be revised one time (average).
- 14. Each specification will have two ECP's (average).
- 15. Each specification will have two SCN's (average).
- d. OSE, AHSE and MDE Assumptions
 - 1. Thirty-six prime equipment CEI's (CP)
 - 2. One hundred thirty-five identification item CEI's (CD)

- 3. Eighteen engineering critical components (EC).
- 4. Each CD will average 11 subassemblies.
- 5. Each EC will average 24 subassemblies.
- 6. Each Assembly PL will contain 34 line items (average); of the thirty-four line items, seven will be drawings.
- 7. Over the life of the Project, 10 percent of the drawings will be new starts.
- 8. Each drawing will be revised two times (average).
- 9. There will be 36 CP Specifications; one hundred 35 CD Specifications; and 18 EC Specifications.
- 10. Each will have three other specifications in support (average)
- 11. Each specification will be revised one time.
- 12. Each specification will have two ECP's.
- 13. Each specification will have two SCN's.
- 14. Each drawing will have four AN's.

Distribution and density of data item preparation requirements are shown in Figure D-3, Configuration Management Data Item Density Profile. Requirements are shown as averages per month during the entire contract period. The preparation of "Alteration Notices" (CM-003) and "Design Change Requests" (CM-045) are of particular significance.



A S/A WK MO B/W B/M	Annual Semi-Annual Weekly Monthly Bi-Weekly Bi-Monthly	O/T A/R U I/U DA Q	One Time As Required Update One Update Daily Quarterly	I F N/R SDR PDR HDR	Initial Final New and Revised System Design Review Preliminary Design Review Hard Design Review	CDR FACI MAR J FACT	Critical Design Review First Article Configuratio Mission Acceptance Revie Joint Flight Acceptance Composite Testing
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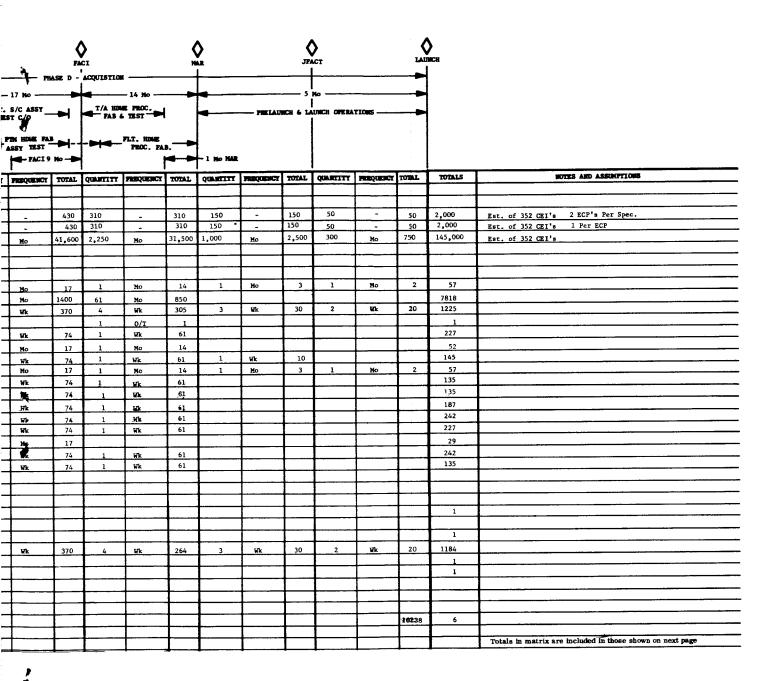


Figure D-2. Configuration Management Data Item Phasing and Frequency Matrix (Sheet 1 of 2)

 \Diamond \Diamond HDR CDR 12 MO. 3.5 MO. 9 MO. 3.5 MO. DATA ITEM TITLE FREQ TOTAL QUAN TOTAL Q FREQ QUAN TOTAL QUAN FREQ TOTAL QUAN FREQ PLANS O/T 1 CM-026 Plan, Configuration Management PROCEDURES 0/T CM-027 Procedure, Change Control 0/T CM-028 Procedure. Config. Control (Administrative 1 CM-029 Procedure, Config. Mgmt. Data Processing O/T O/T 1 CM-030 Config. Mgmt. Reviews 1 CM-031 Procedure, Engineering Configuration 0/T 1 1 Identification Doc. Release System 1 0/T 1 CM-032 Instruction, Change Document Preparation O/T 1 CM-033 Instructions, Change Submittal and Aprvl. RECORDS 260 240 Wk Wk 5 CM-034 Chart, Configuration O/T CM-035 Record, Drawing Approval 1 CM-036 Record, Drawing Release and Status 1 0/T CM-037 Record, Installation REPORTS 260 Da 260 75 200 Da 200 75 CM-038 Report, Change Approved/Change Held 9 Mo 12 3 1 Мo CM-039 Report, Configuration Management Activity Мо 9 1 Мо 12 3 1 CM-040 Report, Configuration Mgmt. Audit Mo 12 Мо 9 1 1 CM-041 Report, Contract Document Status CM-042 Report, Hardware Status CM-043 Report, Spares Status (Contract End Item) 12 1 Mo 9 1 Mo CM-044 Report, Updating/Modification Status REQUESTS 1020 12240 1200 480 1680 Мо 5400 :-Mo CM-045 Request, Design Change 53158 44415 12 6143 TOTALS *Key Informal Data Critical Design Revi CDR Initial One Time A S/A O/T Annual First Article Config Mission Acceptance FACI Final A/R U As Required Semi-Annual MAR Update N/R New and Revised WK MO Weekly

ī/U

DA

Monthly

Bi-Weekly

Bi-Monthly

One Update

Daily

SDR

HDR

System Design Review

Hard Design Review

Preliminary Design Review

J FACT

Joint Flight Accepta Composite Testing

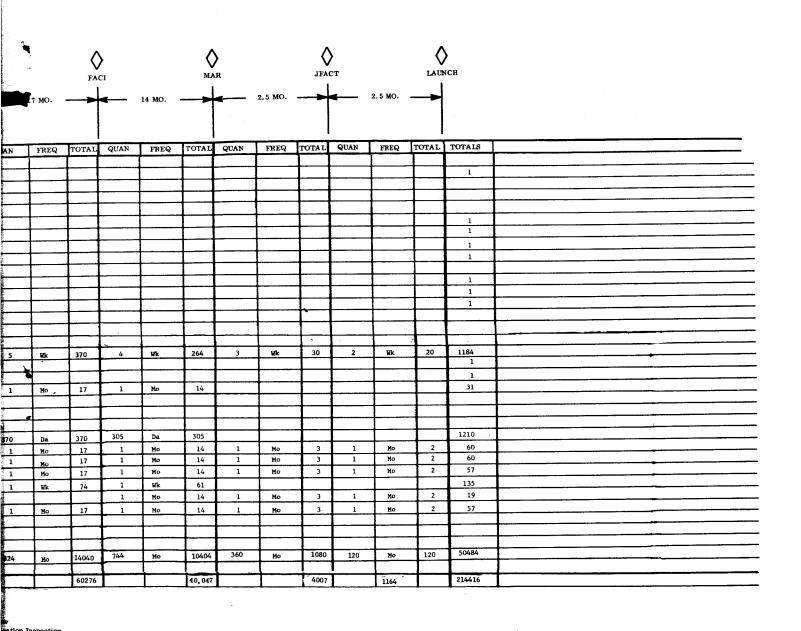


Figure D-2. Configuration Management Data Item Phasing and Frequency Matrix (Sheet 2 of 2)

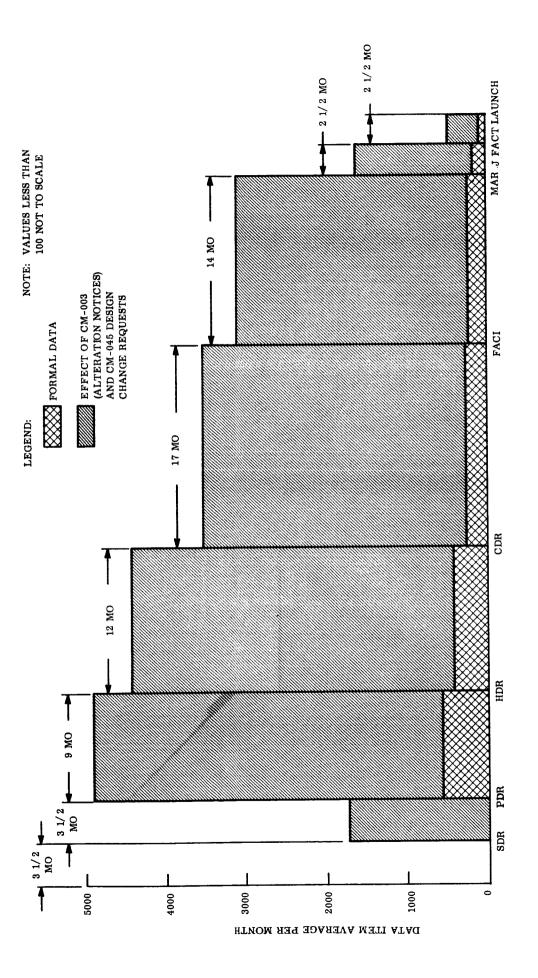


Figure D-3. Configuration Management Data Item Density Profile